

4HT6

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Current.	0.450 ± 0.030	amp
Voltage (AC or DC) at heater amperes = 0.450	4.2	volts
Warm-up time (Average)	11	sec
Peak heater-cathode voltage:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 max.	volts

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield ^a</i>	
Grid No.1 to plate	0.031	0.024	pf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	8.7	8.7	pf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	2.15	3.0	pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage	125	volts
Grid No.3 (Suppressor Grid).	<i>Connected to cathode at socket</i>	
Grid-No.2 Supply Voltage	125	volts
Cathode Resistor	56	ohms
Plate Resistance (Approx.)	0.143	megohm
Transconductance	14000	μmhos
Plate Current.	15	ma
Grid-No.2 Current.	4	ma
Grid-No.1 Voltage (Approx.) for transconductance (μmhos) = 100	-4.5	volts
Grid-No.1 Voltage (Approx.) for transconductance (μmhos) = 300	-3.5	volts

Mechanical:

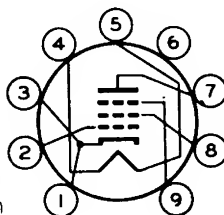
Operating Position	Any
Type of Cathode.	Coated Unipotential
Maximum Overall Length	2-3/16"
Maximum Seated Length.	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip).	1-9/16" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline.	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)



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Basing Designation for BOTTOM VIEW 9PM

Pin 1—Cathode
Pin 2—Grid No.1
Pin 3—Cathode
Pin 4—Heater
Pin 5—Heater
Pin 6—No Internal
Connection



Pin 7—Plate
Pin 8—Grid No.2
Pin 9—Grid No.3,
Internal
Shield

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 250 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . . 250 max. volts
GRID-No.2 VOLTAGE. See *Grid-No.2 Input*

Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Negative-bias value. 50 max. volts

CATHODE CURRENT. 25 max. ma

GRID-No.2 INPUT:

For grid-No.2 voltages up to 125 volts . . 0.6 max. watt

For grid-No.2 voltages

between 125 and 250 volts. See *Grid-No.2 Input*

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION. 2.5 max. watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation 0.25 max. megohm

For cathode-bias operation 1 max. megohm

^a with JEDEC shield No. 315 connected to ground.

